ONLINE CERTIFICATIONS DIRECTORY

System No. W-L-7129
XHEZ.W-L-7129
Through-penetration Firestop Systems

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Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems

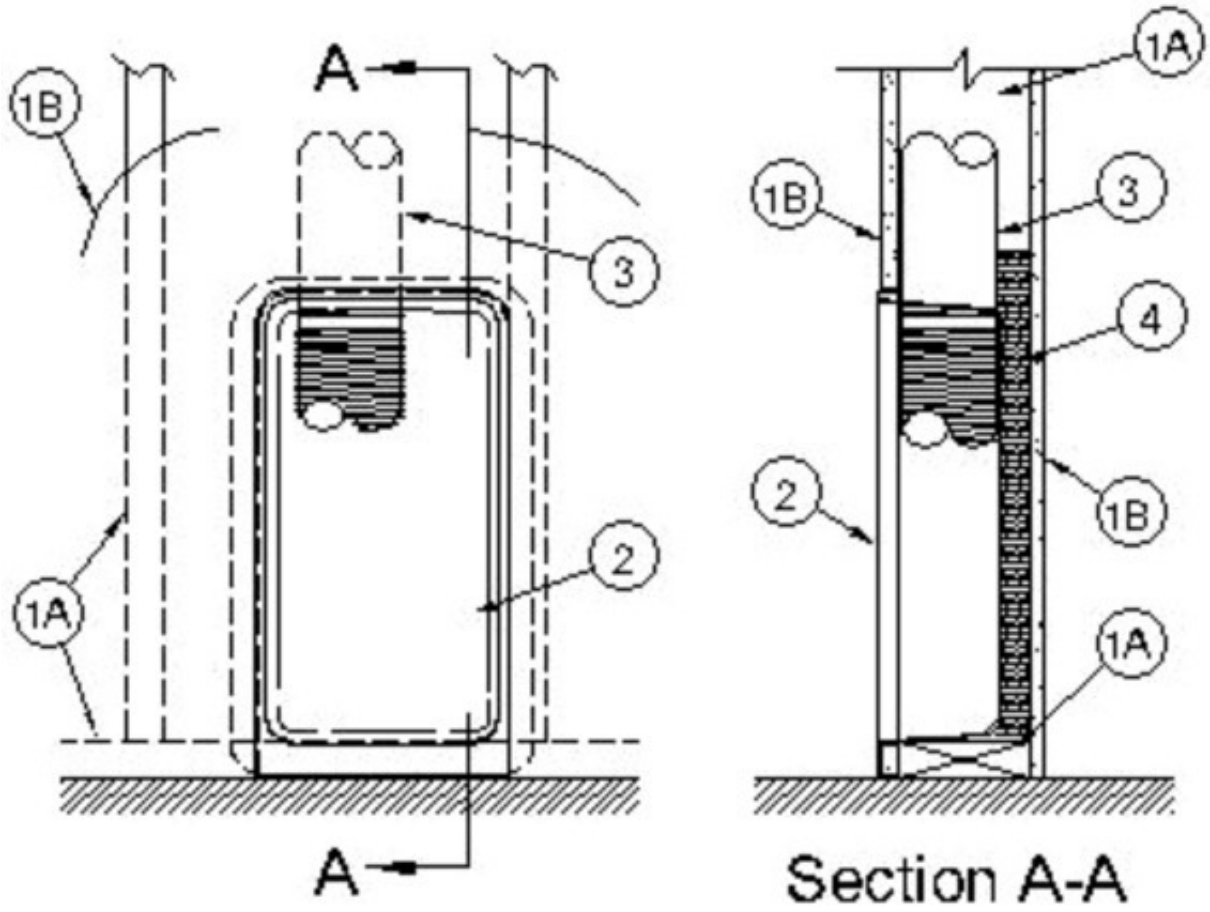
See General Information for Through-penetration Firestop Systems

System No. W-L-7129

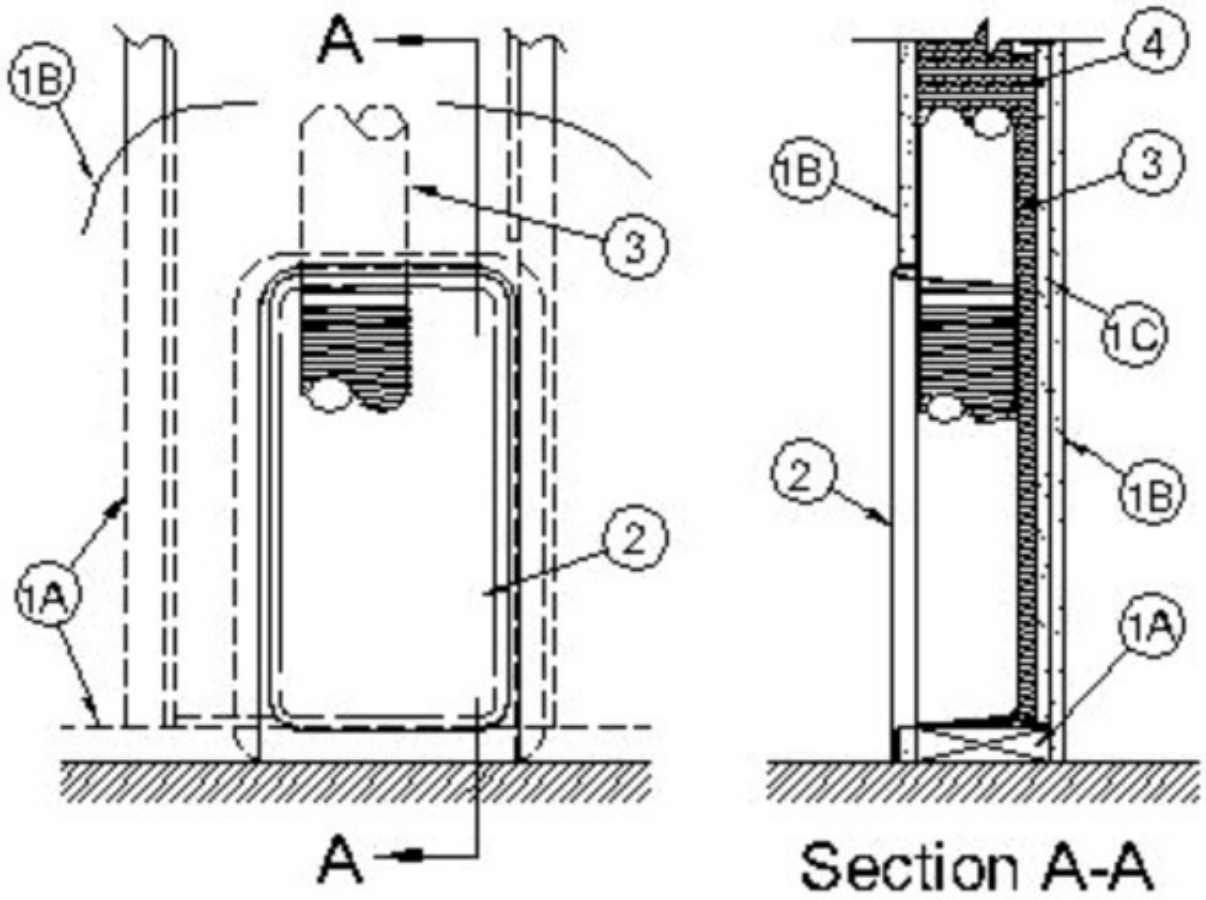
March 26, 2008

F Ratings — 1/2 and 1 Hr (See Items 1, 1A and 4)

T Ratings — 1/2 and 1 Hr (See Items 1 and 1A)



CONFIGURATION A



CONFIGURATION B

1. **Wall Assembly — Configuration A —** The fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs —** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of min nom 2 by 6 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 6 in. (152.4 mm) wide and spaced max 24 in. (610 mm) OC.

B. **Gypsum Board* —** One layer of nom 5/8 in. (16 mm) thick gypsum board, as specified in the individual Wall and Partition Design.

The hourly F and T Rating of the firestop system for Configuration A is 1/2 Hr.

1A. **Wall Assembly — Configuration B —** The fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs —** Wall framing to consist of wood studs. Wood studs to consist of min nom 2 by 6 in. (51 by 102 mm) lumber spaced

16 in. (406 mm) OC.

B. **Gypsum Board* —** One layer of nom 5/8 in. (16 mm) thick gypsum board, as specified in the individual Wall and Partition Design.

C. **Gypsum Board* —** An additional layer of gypsum board shall be cut to fit ID of stud cavity and installed flush with edge of studs on non-penetrated face of wall. Additional layer of gypsum board to be attached to min 1 by 2 in. (25 by 51 mm) wood nailing strips with fasteners spaced max 18 in. (457 mm) OC around periphery of board. Nailing strips to be secured to wood studs and plates with fasteners spaced max 18 in. (457 mm) OC. Nailing strips may be discontinuous and terminate max 1 in. (25 mm) from vent duct and cabinet interfaces with plates and studs.

The hourly F and T Rating of the firestop system for Configuration B is equal to 1 Hr.

2. **Cabinet* —** Recessed fixture intended for dryer appliance exhaust duct installed per manufacturer's installation instructions in one side of wall assembly. Cutout in gypsum board for top exhaust device is 18-1/4 by 9-1/2 in. (464 by 241 mm). Cutout in gypsum board for bottom exhaust duct is 16 by 14 in. (406 by 356 mm). Max gap between cabinet and gypsum board around periphery of cutout shall be 1/8 in. (3.2 mm). As an option, gap may be sealed with UL Classified sealant or caulk (see Fill, Void or Cavity Material (XHHW) category in the Fire Resistance Directory for names of manufacturers) or drywall compound.

IN-O-VATE TECHNOLOGIES — Dryerbox Model 350, 425, 3D or 4D.

3. **Steel Vent Duct —** Nom 4 in. (102 mm) diam by min 26 gauge rigid steel dryer duct friction fitted into top or bottom opening of the cabinet (Item 2) for purposes of venting to the exterior. Vent duct to be routed entirely within fire rated construction from the cabinet to the exterior of the building. Vent duct to be firestopped in accordance with an appropriate F-A-7000, F-C-7000 or F-E-7000 Series firestop system where it passes through the top plate or sole plate of the chase wall in which it is routed.

4. **Insulation —** The spaces between the sides of the cabinet and the studs and the space immediately above the cabinet are to be tightly packed with glass fiber batt or mineral wool batt insulation. For firestop systems with 1 Hr F Rating, the entire stud cavity containing the cabinet shall be filled with min R19 glass fiber batt insulation or mineral wool insulation with additional pieces of insulation applied as needed to completely fill all voids around the cabinet and vent duct to the full depth of the stud cavity.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2008-03-26

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